

## IHCAb™ CD117 (C-kit) mouse mAb (BGT233)

Cat #: B-IMW6986

Size: 100 µL

Storage: Store at -20°C. Avoid repeated freeze / thaw cycles.

### Background

This gene encodes the human homolog of the proto-oncogene c-kit. C-kit was first identified as the cellular homolog of the feline sarcoma viral oncogene v-kit. This protein is a type 3 transmembrane receptor for MGF (mast cell growth factor, also known as stem cell factor). Mutations in this gene are associated with gastrointestinal stromal tumors, mast cell disease, acute myelogenous leukemia, and piebaldism. Multiple transcript variants encoding different isoforms have been found for this gene.

### Product Information

**Applications/Dilution:** IHC-p 1:100-500, WB 1:200-1000, IF 1:100-500

**Isotype/Source:** Mouse, Monoclonal/IgG2b, Kappa

**Specificity:** The antibody can specifically recognize human CD117 protein

**Subcellular Location:** [Isoform 1]: Cell membrane; Single-pass type I membrane protein.; [Isoform 2]: Cell membrane; Single-pass type I membrane protein.; [Isoform 3]: Cytoplasm . Detected in the cytoplasm of spermatozoa, especially in the equatorial and subacrosomal region of the sperm head

**Expression:** [Isoform 3]: In testis, detected in spermatogonia in the basal layer and in interstitial Leydig cells but not in Sertoli cells or spermatocytes inside the seminiferous tubules (at protein level) (PubMed:20601678). Expression is maintained in ejaculated spermatozoa (at protein level) (PubMed:20601678)

**Formulation:** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.79% sodium azide

**Storage:** Store at -15°C to -25°C

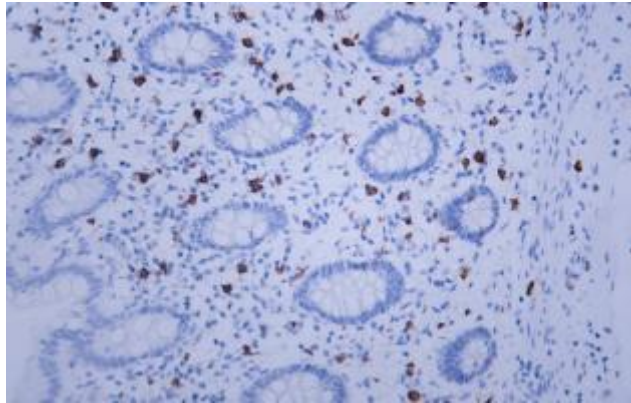


Fig. Human appendix tissue was stained with anti-CD117 antibody

**Note:**

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.